## A. CLASSIFICATION OF SUBJECT MATTER IPC 7 F04B43/12

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

 $\begin{array}{ll} \mbox{Minimum documentation searched (classification system followed by classification symbols)} \\ \mbox{IPC 7} & \mbox{F04B} \end{array}$ 

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

## EPO-Internal

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 552 516 A (STANLEY DERYL B) 12 November 1985 (1985-11-12) claim 1	1
Α	DE 201 09 803 U (FRESENIUS HEMOCARE GMBH) 24 October 2002 (2002-10-24) column 1, line 65 - column 2, line 27	1
Α	US 4 604 038 A (BELEW ROBERT R) 5 August 1986 (1986-08-05) column 2, line 40 - column 3, line 8	1
Α	US 3 011 684 A (CORNEIL ERNEST R) 5 December 1961 (1961-12-05) column 1, line 49 - line 70	1
	-/	

Further documents are listed in the continuation of box C.	Y Patent family members are listed in annex.
Special categories of cited documents:      A* document defining the general state of the an which is not considered to be of particular relevance      E* earlier document but published on or after the International filling date      L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)      O* document referring to an oral disclosure, use, exhibition or other means      P* document published prior to the international filing date but	<ul> <li>*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> </ul>
Date of the actual completion of the international search  22 September 2004	*&* document member of the same patent family  Date of mailing of the international search report  30/09/2004
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL – 2280 HV Rijswijk  Tel. (+31–70) 340–2040, Tx. 31 651 epo nl,	Authorized officer
Fax: (+31–70) 340–3016	Fistas, N

761	/ UH	<b>ZUU4</b>	7 UU	U.59 I
-----	------	-------------	------	--------

(Continue	Pation) DOCUMENTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.			
Α	DE 198 14 943 A (MOLDENHAUER THOMAS) 7 October 1999 (1999-10-07) cited in the application abstract	1			
		·			

<u>.</u>	INTERNATIONAL SEAROR REFORT				PCT/CH2004/000391		
	Patent document cited in search report		Publication date		Patent family member(s)	Publication date	
	US 4552516	Α	12-11-1985	CA	1233362 A1	01-03-1988	
	DE 20109803	U	24-10-2002	DE	20109803 U1	24-10-2002	
	US 4604038	Α	05-08-1986	NONE			
	US 3011684	A	05-12-1961	NONE			

DE 19814943 A 07-10-1999 DE 19814943 A1 07-10-1999